

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P676564

Luminaire Tested: **CCW-SA-1C-740-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676564  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-740-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

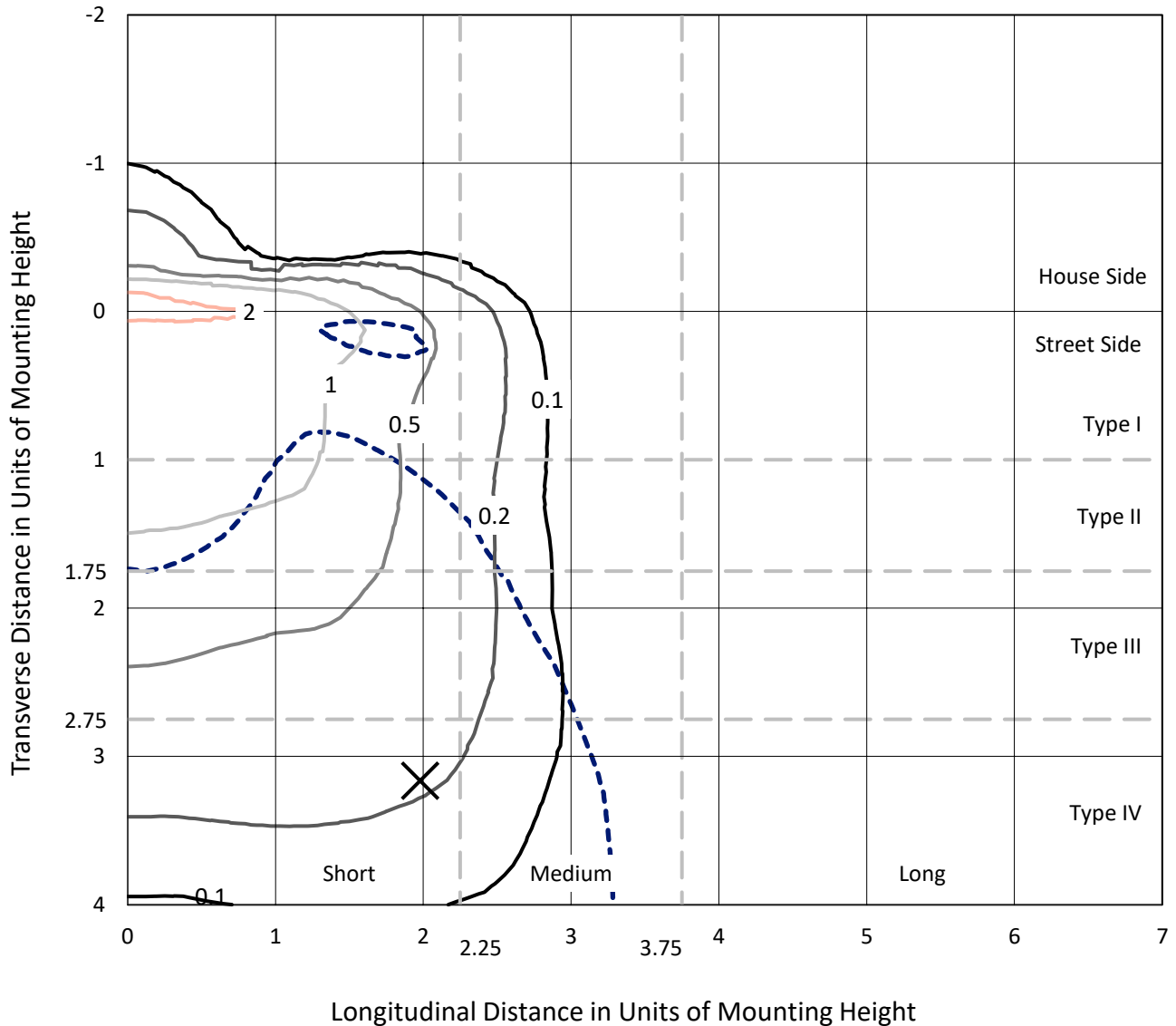
Lumens per Lamp: N/A  
Luminaire Lumens: 3246.5 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

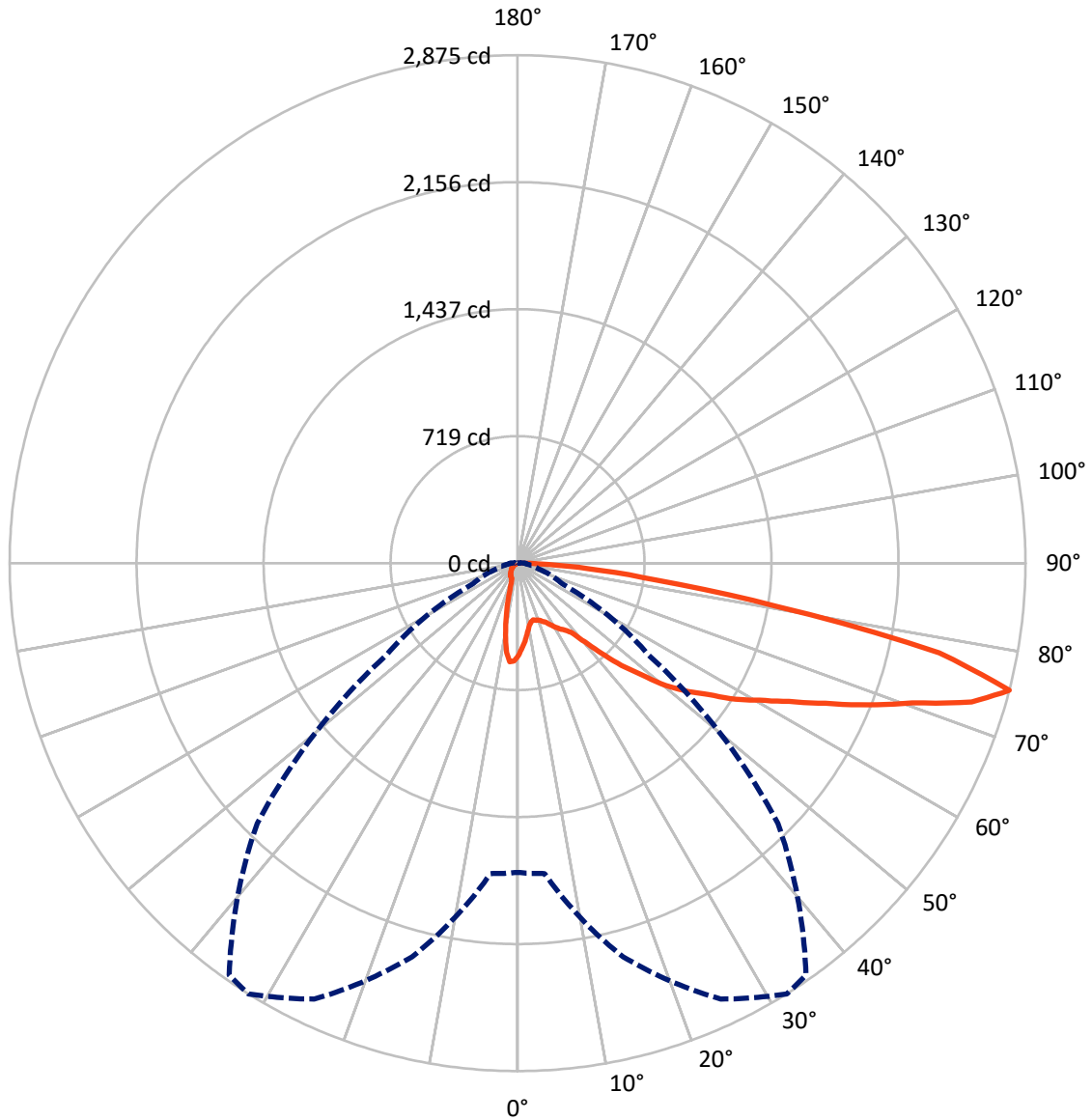
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	350.7	0.0	350.7
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2895.8	0.0	2895.8
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3246.5	0.0	3246.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	1.4
10°-20°	104.6	3.2
20°-30°	156.6	4.8
30°-40°	240.4	7.4
40°-50°	420.4	12.9
50°-60°	657.1	20.2
60°-70°	849.5	26.2
70°-80°	691.9	21.3
80°-90°	80.1	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3246.5	100.0
0°-180°	3246.5	100.0



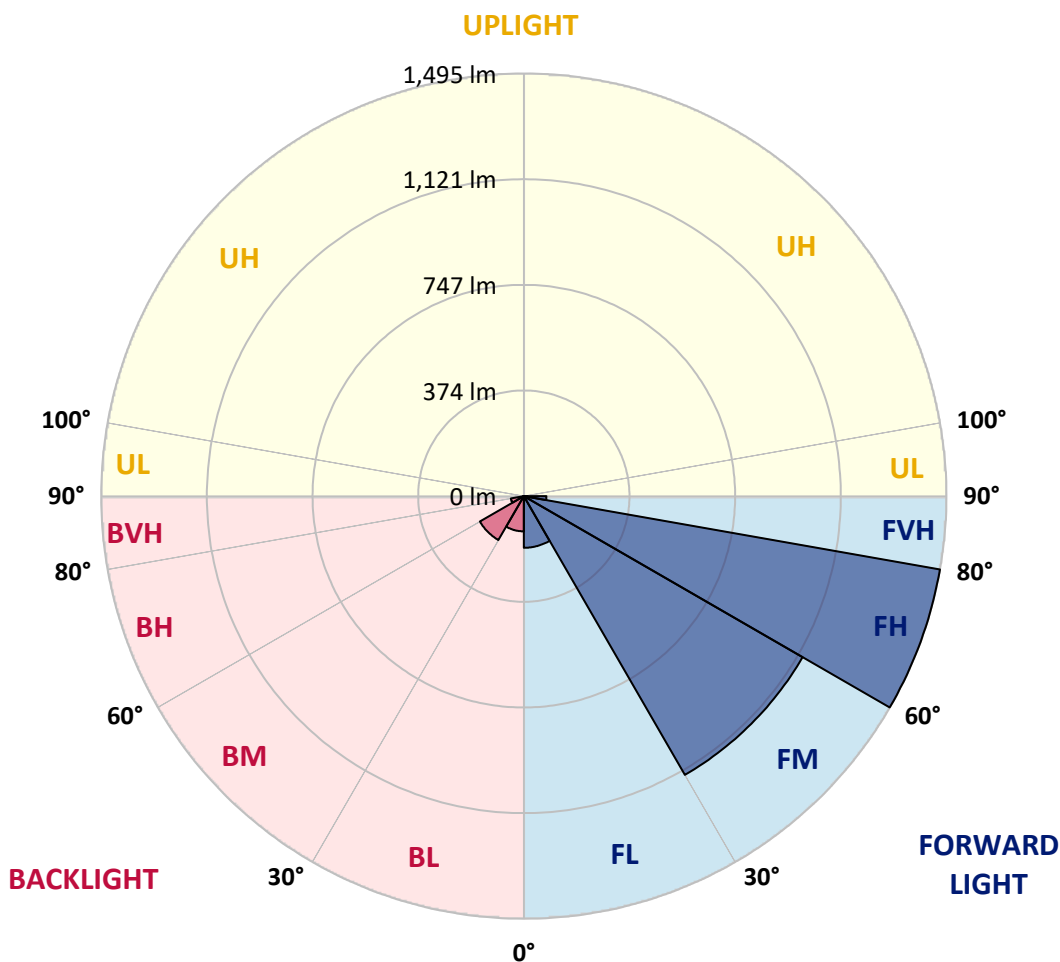
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.7	5.6			
FM (30°-60°)	1138.4	35.1			
FH (60°-80°)	1494.7	46.0			G1/1800
FVH (80°-90°)	80.0	2.5			G1/100
BL (0°-30°)	124.6	3.8	B1/500		
BM (30°-60°)	179.4	5.5	B0/220		
BH (60°-80°)	46.6	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
2.5°	470.1	476.8	475.9	480.1	480.9	483.4	489.3	489.3	505.9	517.5	525.0
5°	427.7	423.5	425.2	430.2	442.7	441.8	456.0	463.5	483.4	500.1	517.5
7.5°	375.3	374.4	377.8	389.4	398.6	406.1	421.0	440.2	466.8	491.8	522.5
10°	342.0	340.3	347.0	350.3	361.1	366.1	389.4	419.4	451.0	486.8	522.5
12.5°	334.5	328.7	332.0	331.2	341.1	343.6	366.1	402.7	441.0	485.1	529.2
15°	338.7	334.5	331.2	331.2	333.7	335.3	359.5	391.9	435.2	487.6	544.2
17.5°	352.0	349.5	339.5	329.5	340.3	340.3	355.3	389.4	436.0	495.1	562.5
20°	367.8	365.3	347.8	336.2	343.6	352.0	367.8	395.2	438.5	500.9	590.8
22.5°	385.2	385.2	361.1	347.8	357.8	358.6	386.9	413.5	448.5	515.9	609.1
25°	406.9	405.2	381.9	366.9	370.3	379.4	405.2	433.5	466.8	536.7	643.2
27.5°	435.2	432.7	405.2	390.2	394.4	404.4	433.5	461.8	483.4	545.0	672.3
30°	458.5	456.0	433.5	411.0	420.2	429.3	463.5	488.4	504.2	560.8	705.6
32.5°	463.5	459.3	444.3	434.3	444.3	461.8	488.4	514.2	538.4	600.8	768.8
35°	520.9	505.9	466.8	451.0	466.0	471.8	515.9	561.6	584.9	632.4	839.6
37.5°	630.7	616.6	565.0	520.9	500.1	506.7	564.1	620.7	643.2	691.5	916.9
40°	765.5	742.2	687.3	628.2	585.8	577.5	614.9	698.1	719.7	765.5	1018.5
42.5°	919.4	897.0	812.1	742.2	698.9	688.1	693.9	788.0	806.3	833.7	1085.0
45°	1030.1	1018.5	922.8	860.4	826.2	814.6	800.5	886.2	909.5	918.6	1181.5
47.5°	1094.2	1085.9	1032.6	990.2	944.4	931.9	941.1	1022.6	1006.8	1014.3	1273.9
50°	1179.9	1158.2	1085.9	1099.2	1090.0	1086.7	1102.5	1138.3	1115.0	1093.3	1374.6
52.5°	1248.9	1210.7	1159.9	1192.4	1206.5	1219.0	1274.7	1301.4	1197.4	1164.1	1439.5
55°	1291.4	1254.8	1268.1	1298.0	1313.0	1370.4	1436.2	1416.2	1251.4	1220.7	1526.0
57.5°	1329.7	1332.1	1367.9	1377.1	1453.6	1463.6	1590.1	1525.2	1289.7	1272.2	1560.1
60°	1422.0	1412.9	1442.0	1501.1	1574.3	1630.0	1750.7	1598.4	1308.9	1298.9	1551.0
62.5°	1588.4	1531.8	1541.8	1616.7	1724.1	1784.8	1843.0	1631.7	1303.9	1303.0	1523.5
65°	1799.8	1734.9	1704.9	1774.8	1913.8	1999.5	1947.1	1669.1	1270.6	1293.9	1421.2
67.5°	1975.3	1976.2	1920.4	1959.5	2140.9	2159.2	2045.2	1661.6	1214.8	1221.5	1171.6
70°	2177.5	2205.0	2155.9	2278.2	2368.9	2380.6	2157.6	1600.1	1095.0	921.1	673.1
72.5°	2229.1	2243.3	2396.4	2584.4	2686.8	2690.1	2268.2	1394.6	720.6	406.9	208.9
75°	1750.7	1764.0	2306.5	2722.5	2874.8	2845.7	2083.5	905.3	280.4	119.0	49.9
77.5°	976.9	981.0	1432.0	2200.8	2438.8	2321.5	1459.5	352.8	113.2	68.2	23.3
80°	267.1	313.7	530.9	1085.0	1489.4	1462.0	694.8	114.8	73.2	53.3	10.8
82.5°	64.1	69.1	170.6	480.1	787.1	821.3	207.2	58.2	50.8	44.1	5.8
85°	23.3	25.8	52.4	233.8	404.4	371.1	62.4	29.1	37.4	34.1	2.5
87.5°	8.3	8.3	16.6	76.6	118.2	89.0	20.8	10.0	19.1	20.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2
2.5°	525.9	525.9	537.5	547.5	550.8	555.0	550.8	560.0	559.2	555.0	556.7
5°	526.7	541.7	551.7	558.3	561.6	560.8	562.5	552.5	546.7	542.5	538.4
7.5°	530.9	545.0	563.3	561.6	552.5	533.4	518.4	491.8	466.0	465.1	461.0
10°	545.0	557.5	568.3	561.6	528.4	470.1	422.7	386.9	354.5	339.5	341.1
12.5°	555.0	578.3	573.3	539.2	470.1	393.6	323.7	271.3	242.1	214.7	214.7
15°	575.8	584.1	582.5	506.7	398.6	307.0	222.2	168.9	138.1	125.6	124.0
17.5°	595.8	604.9	576.6	457.6	327.8	206.4	134.8	104.8	100.7	99.0	99.8
20°	620.7	621.6	571.6	408.5	246.3	130.6	96.5	94.0	94.9	94.0	94.0
22.5°	647.4	653.2	554.2	339.5	163.9	94.9	89.9	90.7	90.7	90.7	93.2
25°	682.3	673.1	526.7	273.8	107.3	87.4	87.4	88.2	88.2	88.2	89.0
27.5°	705.6	693.1	491.8	197.2	84.0	82.4	84.0	84.0	85.7	85.7	85.7
30°	753.9	721.4	447.7	127.3	75.7	78.2	79.9	81.5	82.4	84.0	84.9
32.5°	791.3	746.4	392.7	84.9	69.1	70.7	74.9	78.2	81.5	80.7	80.7
35°	859.5	787.1	342.0	67.4	63.2	63.2	67.4	73.2	78.2	79.9	79.9
37.5°	937.7	820.4	271.3	61.6	58.2	58.2	60.7	67.4	74.1	77.4	75.7
40°	1002.6	858.7	200.5	57.4	54.1	54.1	55.7	60.7	68.2	74.1	74.9
42.5°	1048.4	887.0	135.6	53.3	50.8	49.9	52.4	54.9	60.7	69.1	70.7
45°	1090.0	902.0	84.0	49.1	47.4	47.4	47.4	49.9	54.1	61.6	63.2
47.5°	1164.1	918.6	60.7	45.8	43.3	44.1	44.9	45.8	49.1	50.8	51.6
50°	1226.5	931.1	49.9	42.4	40.8	41.6	41.6	41.6	43.3	40.8	40.8
52.5°	1273.9	918.6	42.4	39.1	37.4	38.3	37.4	37.4	35.8	32.5	32.5
55°	1308.9	896.1	34.1	35.8	35.8	35.8	34.1	31.6	28.3	25.8	25.8
57.5°	1318.0	857.9	26.6	30.0	32.5	32.5	29.1	25.8	21.6	19.1	18.3
60°	1303.9	774.7	20.0	21.6	25.0	25.8	23.3	19.1	15.0	12.5	12.5
62.5°	1253.1	708.9	15.8	14.1	18.3	19.1	16.6	12.5	8.3	5.8	5.0
65°	1156.6	607.4	11.6	10.0	12.5	13.3	10.8	5.8	2.5	0.8	0.0
67.5°	927.8	457.6	7.5	6.7	8.3	8.3	5.0	1.7	0.0	0.0	0.0
70°	513.4	257.1	5.0	3.3	4.2	2.5	0.8	0.0	0.0	0.0	0.0
72.5°	148.1	73.2	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	39.9	17.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.5	6.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)